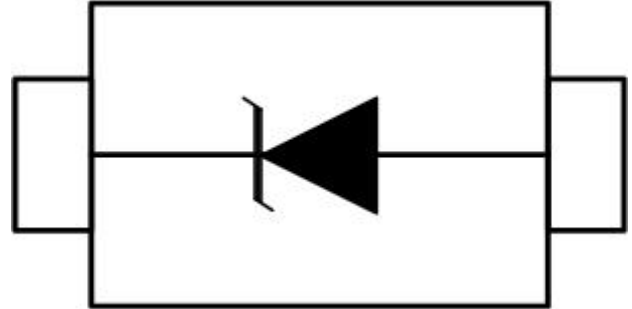


ESDXXV52D-A

APPLICATIONS

- Cellular Handsets and Accessories
- Portable Electronics
- Industrial Controls
- Set-Top Box
- Instrumentation
- Servers, Notebook, and Desktop PC
- Display Ports

PIN CONFIGURATION



IEC COMPATIBILITY

- IEC61000-4-2 (ESD) $\pm 30\text{kV}$ (air), $\pm 30\text{kV}$ (contact)
- IEC61000-4-4 (EFT) 40A (5/50s)

MECHANICAL CHARACTERISTICS

- SOD-523 Package
- Molding Compound Flammability Rating : UL 94V-0
- Weight 2 Milligrams (Approximate)
- Quantity Per Reel : 3,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

FEATURES

- 120 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$)
- Protects one I/O line
- Low clamping voltage
- Working voltages : 3.3V, 5V, 8V, 12V, 15V and 24V
- Low leakage current

DEVICE CHARACTERISTICS

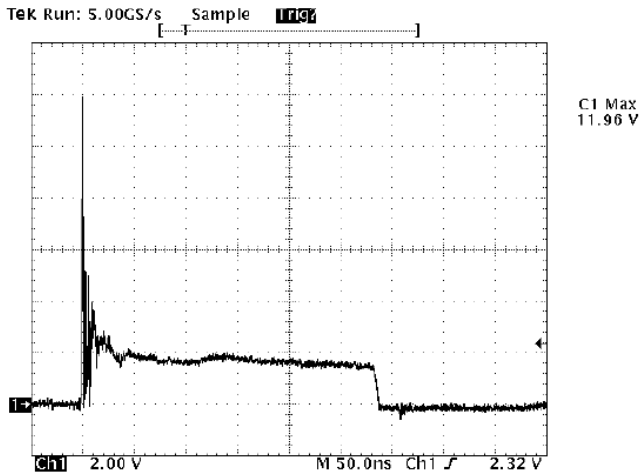
MAXIMUM RATINGS (@ 25 °C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20µs waveform)	P _{PP}	120	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

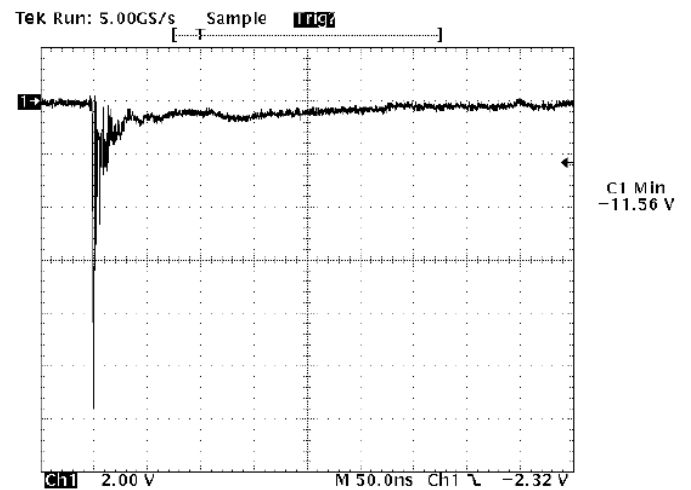
ELECTRICAL CHARACTERISTICS PER LINE (@ 25 Unless Otherwise Specified)

PART NUMBER	DEVIC EMARKING	V _{RWM}	V _B	I _T	V _C	V _C		I _R	C _T
		(V)	(V)		@1A	(max.)	(@A)	(µA)	(pF)
		(max.)	(min.)		(mA)			(max.)	(max.)
ESD3.3V52D-A	ZD	3.3	4	1	6.5	14.1	11.2	200	200
ESD05V52D-A	KE	5	6	1	9	18.6	9.4	5	110
ESD08V52D-A	ZE	8	8.5	1	13	19.5	8.8	5	70
ESD12V52D-A	ZM	12	13.3	1	15	17	5	1	60
ESD15V52D-A	KP	15	16.6	1	20	22	5	1	50
ESD24V52D-A	KR	24	26.7	1	30	32	5	1	25

**ESD Clamping
(8kV Contact per IEC 61000-4-2)**

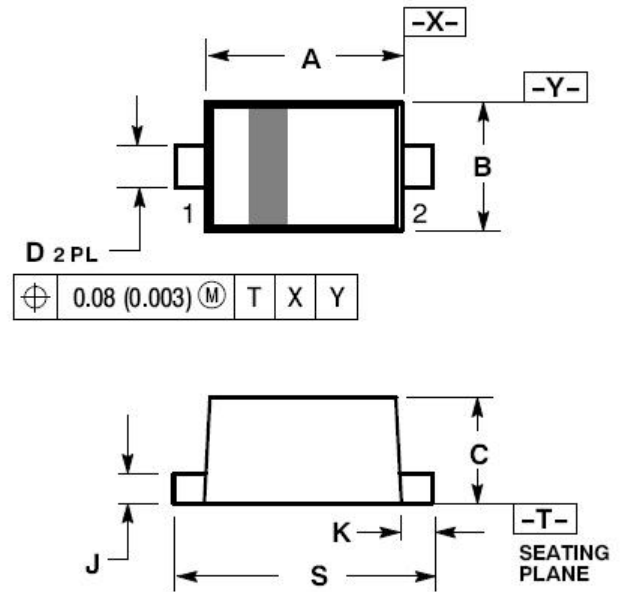


**ESD Clamping
(-8kV Contact per IEC 61000-4-2)**



SOD-523 PACKAGE OUTLINE & DIMENSIONS

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.10	1.20	1.30	0.043	0.047	0.051
B	0.70	0.80	0.90	0.028	0.032	0.035
C	0.50	0.60	0.70	0.020	0.024	0.028
D	0.25	0.30	0.35	0.010	0.012	0.014
J	0.07	0.14	0.20	0.0028	0.0055	0.0079
K	0.15	0.20	0.25	0.006	0.008	0.010
S	1.50	0.16	1.70	0.059	0.063	0.067



* SOLDERING FOOTPRINT

